

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250145

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150840 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16068.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

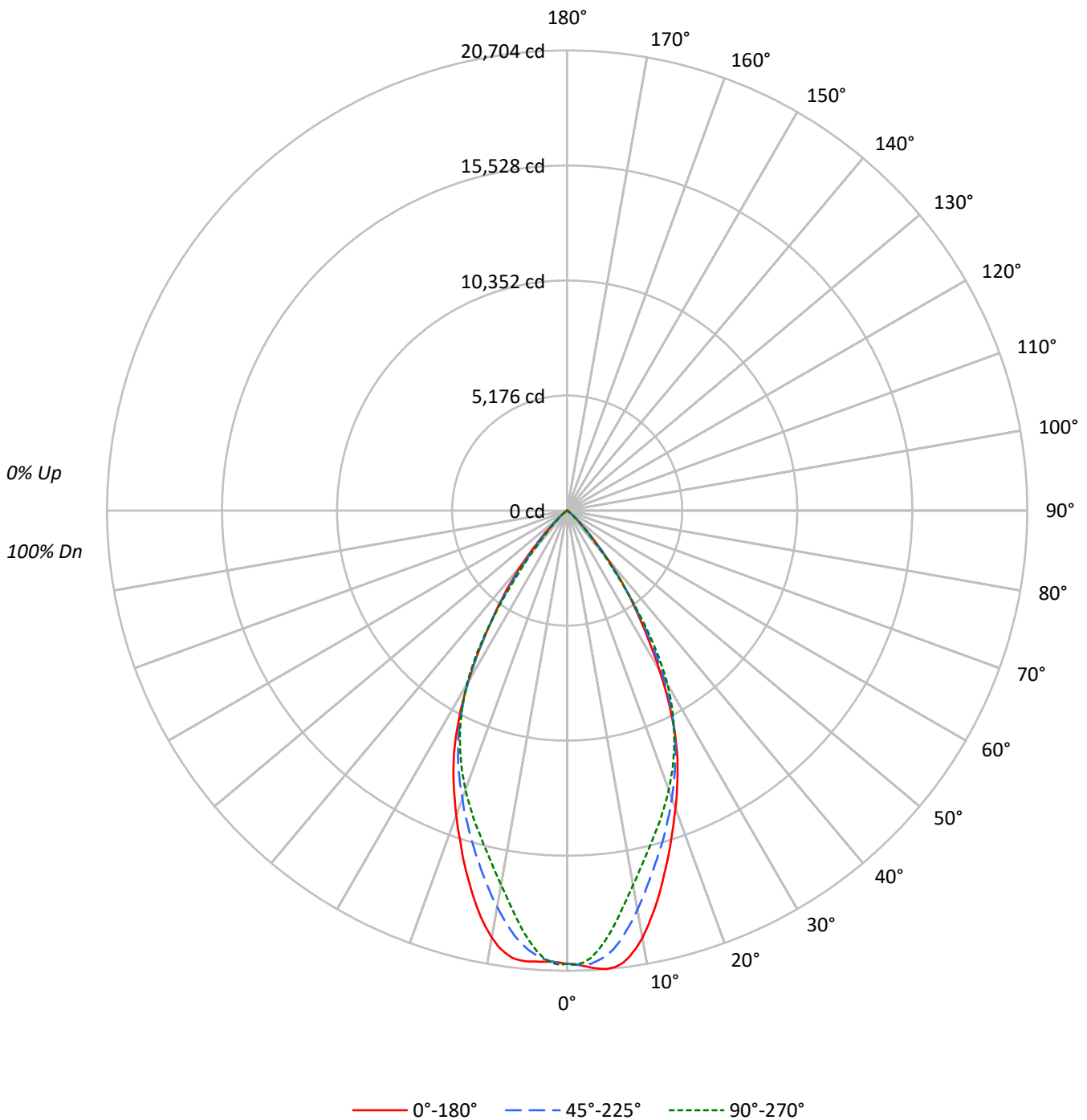
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	628805	628805	628805
5°	640877	602048	630439
10°	611029	535583	610872
15°	539562	483056	548740
20°	467582	438459	478644
25°	395068	388317	409572
30°	296928	321468	317231
35°	198769	210152	215566
40°	111363	95595	127726
45°	44756	39349	53190
50°	15457	14987	18316
55°	4263	5070	4801
60°	2448	3059	2751
65°	2167	1802	1445
70°	0	1343	893
75°	0	0	0
80°	0	0	888
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1851.2	11.5
10°-20°	4477.3	27.9
20°-30°	5247.6	32.7
30°-40°	3452.7	21.5
40°-50°	901.0	5.6
50°-60°	110.8	0.7
60°-70°	23.0	0.1
70°-80°	4.3	0.0
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11576.1	72.0
0°-40°	15028.8	93.5
0°-60°	16040.6	99.8
0°-90°	16068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16068.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20392	20392	20392	20392	20392	
5°	20704	20114	19450	19851	20367	###
15°	16901	15944	15131	15944	17189	4711
25°	11611	11497	11413	11606	12038	5235
35°	5280	5399	5583	5637	5726	3306
45°	1026	967	902	1046	1220	920
55°	79	84	94	94	89	105
65°	30	25	25	20	20	21
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	20391.7	20391.7	20391.7	20391.7	20391.7	20391.7	20391.7	20391.7	20391.7
1°	20406.5	20436.4	20446.2	20476.0	20431.4	20401.7	20362.0	20332.2	20337.1
2°	20495.8	20510.7	20456.1	20436.4	20357.0	20332.2	20302.4	20297.5	20302.4
3°	20590.1	20560.2	20416.5	20282.7	20163.7	20148.7	20203.3	20282.7	20327.2
4°	20664.4	20585.1	20282.7	20034.7	19846.3	19831.5	20049.6	20252.8	20337.1
5°	20704.1	20560.2	20114.0	19697.6	19449.7	19543.9	19851.3	20213.2	20366.9
6°	20649.5	20436.4	19856.3	19301.0	19018.4	19142.3	19593.5	20119.0	20347.1
7°	20510.7	20238.0	19524.1	18869.6	18522.6	18715.9	19291.1	19960.3	20272.7
8°	20252.8	19925.7	19102.7	18368.9	18026.8	18244.9	18919.3	19732.3	20094.3
9°	19915.7	19553.8	18686.2	17912.7	17545.9	17803.7	18532.5	19429.9	19846.3
10°	19514.2	19127.4	18225.1	17436.8	17104.7	17347.6	18116.1	19077.8	19509.2
11°	19043.1	18671.3	17764.0	16990.7	16673.3	16911.3	17699.6	18656.5	19122.5
12°	18532.5	18190.4	17293.1	16559.3	16261.8	16489.9	17253.4	18220.1	18681.2
13°	18021.8	17679.7	16837.0	16142.8	15870.1	16088.2	16817.1	17744.2	18205.2
14°	17471.5	17159.2	16380.8	15746.1	15498.3	15706.5	16370.9	17263.2	17699.6
15°	16901.4	16653.4	15944.5	15364.4	15131.4	15329.7	15944.5	16767.4	17188.9
16°	16365.9	16137.8	15523.0	14987.6	14794.3	14952.9	15513.2	16271.8	16673.3
17°	15820.5	15612.3	15101.6	14615.8	14442.3	14596.0	15071.9	15771.0	16132.9
18°	15275.2	15101.6	14640.6	14224.2	14070.5	14209.2	14635.7	15265.3	15592.4
19°	14769.5	14610.8	14219.2	13867.1	13728.4	13852.2	14253.9	14779.4	15106.6
20°	14248.9	14120.0	13777.9	13490.4	13361.4	13475.4	13787.8	14298.5	14586.0
21°	13748.1	13634.1	13336.7	13093.7	12989.6	13083.8	13371.4	13832.5	14085.3
22°	13227.6	13163.2	12895.4	12692.1	12622.7	12682.2	12944.9	13341.6	13579.6
23°	12716.9	12657.4	12454.1	12285.6	12226.1	12285.6	12518.7	12875.6	13088.8
24°	12201.3	12136.9	11988.2	11879.0	11829.5	11879.0	12077.3	12379.8	12583.1
25°	11611.4	11601.4	11497.3	11437.8	11413.0	11467.5	11606.4	11869.2	12037.7
26°	11046.1	11016.3	10986.6	10976.7	10981.7	11011.4	11125.4	11323.8	11457.7
27°	10352.0	10396.7	10441.2	10500.8	10520.6	10545.4	10599.9	10743.6	10842.9
28°	9687.6	9771.9	9881.0	10000.0	10054.6	10054.6	10059.5	10138.8	10223.1
29°	9028.3	9117.5	9291.1	9469.5	9543.9	9533.9	9494.3	9529.0	9578.6
30°	8339.1	8453.2	8686.2	8919.2	9028.3	8988.6	8914.3	8879.6	8909.3
31°	7664.9	7778.9	8036.7	8289.5	8433.3	8388.8	8259.8	8235.1	8249.9
32°	7020.4	7134.4	7372.3	7640.0	7803.7	7744.2	7610.3	7570.6	7575.6
33°	6395.6	6484.9	6703.0	6951.0	7084.8	7069.9	6960.8	6911.3	6916.2
34°	5805.7	5880.1	6043.6	6232.1	6360.9	6356.0	6276.6	6281.6	6296.5
35°	5280.2	5319.8	5399.1	5503.3	5582.6	5627.1	5637.1	5676.7	5726.4
37.5°	3991.1	4005.9	3911.8	3807.6	3787.8	3916.8	4139.8	4333.2	4407.6
40°	2766.5	2731.8	2612.8	2429.4	2374.8	2518.7	2801.2	3073.9	3173.0
42.5°	1720.4	1705.5	1631.1	1492.4	1442.7	1527.1	1740.2	1948.5	2047.6
45°	1026.3	1006.4	966.7	912.3	902.3	937.0	1046.1	1165.1	1219.7
47.5°	589.9	585.1	560.2	540.4	535.5	560.2	609.8	679.2	694.1
50°	322.2	317.3	312.4	312.4	312.4	327.2	352.0	371.8	381.8
52.5°	158.7	163.6	158.7	163.6	168.6	178.4	173.5	193.4	193.4
55°	79.3	74.4	84.3	94.3	94.3	94.3	94.3	94.3	89.3
57.5°	59.4	64.4	54.6	59.4	54.6	54.6	49.6	54.6	59.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	39.7	34.7	39.7	44.6	49.6	44.6	34.7	39.7	44.6
62.5°	19.8	19.8	19.8	29.7	44.6	34.7	29.7	24.7	24.7
65°	29.7	19.8	24.7	29.7	24.7	24.7	19.8	24.7	19.8
67.5°	14.9	24.7	14.9	9.9	14.9	19.8	14.9	9.9	9.9
70°	0.0	5.0	5.0	14.9	14.9	14.9	14.9	9.9	9.9
72.5°	5.0	5.0	5.0	9.9	5.0	9.9	5.0	5.0	9.9
75°	0.0	0.0	5.0	5.0	0.0	5.0	0.0	0.0	0.0
77.5°	5.0	0.0	5.0	5.0	0.0	0.0	0.0	5.0	0.0
80°	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)